### GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 19, 2005, 23:16:46; Search time 20871 Seconds

(without alignments)

11663.984 Million cell updates/sec

Title: US-10-032-256A-1

Perfect score: 5024

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 segs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: GenEmbl:\*

1: qb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb\_ov:\*

6: gb\_pat:\*

7: gb\_ph:\*

8: gb\_pl:\*

9: gb\_pr:\*

10: gb\_ro:\*

11: gb\_sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vi:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
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	6	1861.8		247180	2	AC108663	AC108663 Rattus no
	7	1750	34.8	7385	9	HSA271722	AC100003 Ractus no AJ271722 Homo sapi
	8	1714.6	34.1	2145	6	AX056395	AX056395 Sequence
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_	9	1394.8			6	CQ731710	CQ731710 Sequence
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	11	847.6		274928	2	AC114717	AC114717 Rattus no
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	14	704.4	14.0	2499	5	AY318878	AY318878 Xenopus l
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# ALIGNMENTS

RESULT 1 AF167987

LOCUS AF167987 5024 bp mRNA linear ROD 23-FEB-

2000

DEFINITION Mus musculus hormonally upregulated neu tumor-associated kinase

(Hunk) mRNA, complete cds.

ACCESSION AF167987

VERSION AF167987.1 GI:7021318

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  ORGANISM Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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REFERENCE
               (bases 1 to 5024)
 AUTHORS
            Gardner, H.P., Wertheim, G.B., Ha, S.I., Copeland, N.G., Gilbert, D.J.,
            Jenkins, N.A., Marquis, S.T. and Chodosh, L.A.
  TITLE
            Cloning and characterization of Hunk, a novel mammalian
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            Genomics 63 (1), 46-59 (2000)
  JOURNAL
            20130113
  MEDLINE
   PUBMED
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  AUTHORS
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            Gilbert, D.J., Jenkins, N.A., Marquis, S.T. and Chodosh, L.A.
  TITLE
            Direct Submission
            Submitted (11-JUL-1999) Molecular and Cellular Engineering,
  JOURNAL
            University of Pennsylvania, 612 BRBII, 421 Curie Blvd.,
            Philadelphia, PA 19104-6160, USA
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ORIGIN

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ACCESSION VERSION	1	mRNA, complete cds. AF055919 AF055919.2 GI:4699897				
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TITLE
            Identification of the new protein kinase specifically transcribed
            in mouse tumors with high metastatic potential
            Dokl. Akad. Nauk. 354 (4), 554-556 (1997)
  JOURNAL
  MEDLINE
           97396592
   PUBMED 9273061
               (bases 1 to 5026)
REFERENCE 2
  AUTHORS Korobko, I.V.
            Direct Submission
  TITLE
            Submitted (26-MAR-1998) Laboratory of Cancer Molecular Genetics,
  JOURNAL
            Institute of Gene Biology, Russian Academy of Sciences, 34/5
            Vavilov Str., Moscow 117334, Russia
REFERENCE
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  AUTHORS
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  TITLE
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  JOURNAL
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DSNCVASSSMEFIPVPPPRTPRIVKKLEPHQPGPGSASILPKEEPLLLDMVRSFESVD

# ${\tt REDHIELLSPSHHYRILSSPVSLARRNSSERTLSQGLLSGSTSPLQTPLHSTLVSFAH}$

# EEKNSPPKEEGVCSPPPVPSNGLLQPLGSPNCVKSRGRFPMMGIGQMLRKRHQSLQPS SERSLDASMSPLQPTAPSSLSFDMADGVKGQC"

misc feature

243. .1019 /gene="Mak-v"

/note="encodes putative catalytic domain"

# ORIGIN

	96.0%; Score 4821.6; DB 10; Length 5026; Similarity 98.8%; Pred. No. 0; 0; Conservative 0; Mismatches 29; Indels 31; Gaps	
Qy 13	AGGGCAGCCCGGGAGCCGGAGGAGGAGCGGGGGGGGGG	
Db 1	AGGGCAGCCCGGGAGCGGAGGAGGAGCGGAGCGAGCGAG	ł
Qy 73	TGCCGGCAGCGGCGGGGACGGGCTCTTGGGCGAGCCGGCGCACCGGGGGGCGATGGAG 13.	2
Db 61	TGCCGGCAGCGGGGGACGGGCTCTTGGGCGAGCCGGCGCACCGGGGGGCGATGGAG 12	0
Qy 133	GCGCGGAGGACACGACCAGGCCGGCGGCGGCCTGCGAGGGAAGTTTCCTGCCCGCCTGGG 19	2
Db 121	GCGCGGAGGACACGACCAGGCCGGCGGCGGCCTGCGAGGGAAGTTTCCTGCCCGCCTGGG 18	0
Qy . 193	TGAGCGGCGTGTCCCGCGAGCGGCTCCGGGACTTCCAGCACCACAAGCGCGTGGGCAACT 25	2
Db 181	TGAGCGGCGTGTCCCGCGAGCGGCTCCGGGACTTCCAGCACCACAAGCGCGTGGGCAACT 24	0
Qy 253	ACCTCATCGGCAGCAGGAAGCTGGGAGAGGGCTCCTTCGCCAAGGTGCGCGAGGGGCTGC 31	.2
Db 241	ACCTCATCGGCAGCAGGAAGCTGGGAGAGGGCTCCTTCGCCAAGGTGCGCGAGGGGCTGC 30	0
Qy 313	ACGTGCTGACGGGAGAAAAGGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAAG	2
Db 301	ACGTGCTGACGGGAGAAAAGGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAAG 36	0
Qy 373	ACACCTACGTCACCAAAAACCTGCGTCGAGAGGGGCAGATCCAGCAGATGATCCGACACC 43	32
Db 361	ACACCTACGTCACCAAAAACCTGCGTCGAGAGGGGCAGATCCAGCAGATGATCCGACACC 42	0:
Qy 433	CCAACATCACACAGCTCCTGGACATCTTGGAGACAGAGAACAGCTACTACCTGGTCATGG 49	2
Db 421	CCAACATCACACAGCTCCTGGACATCTTGGAGACAGAGAACAGCTACTACCTGGTCATGG 48	0 (
Qy 493	AGCTGTGTCCTGGTGGCAACCTCATGCACAAGATCTACGAAAAGAAACGGTTGGATGAAG 55	2
Db 481	AGCTGTGTCCTGGTGGCAACCTCATGCACAAGATCTACGAAAAGAAACGGTTGGATGAAG 54	0
Qy 553	CCGAGGCCCGCAGATACATCCGGCAACTCATCTCTGCGGTGGAACACCTGCACCGTGCGG 61	.2
Db 541	CCGAGGCCCGCAGATACATCCGGCAACTCATCTCTGCGGTGGAACACCTGCACCGTGCGG 60	0
Qy 613	GGGTGGTTCACAGAGACTTGAAGATAGAGAATTTGCTACTAGATGAAGACAATAATATCA 67	12

Db	60Í		660
Qу	673	AGCTGATTGACTTTGGCTTGAGCAACTGTGCAGGGATCCTAGGTTACTCGGATCCATTCA	732
Db	661	AGCTGATTGACTTTGGCTTGAGCAACTGTGCAGGGATCCTAGGTTACTCGGATCCATTCA	720
Qу	733	GCACACAGTGTGGCAGCCCTGCCTATGCTGCGCCAGAACTGCTTGCCAGGAAGAAATATG	792
Db	721	GCACACAGTGTGGCAGCCCTGCCTATGCTGCCCAGAACTGCTTGCCAGGAAGAAATATG	780
Qу	793	GCCCCAAAATTGATGTCTGGTCAATAGGCGTGAACATGTATGCCATGCTGACGGGGACCC	852
Db	781	GCCCCAAAATTGATGTCTGGTCAATAGGCGTGAACATGTATGCCATGCTGACGGGGACCC	840
Qy	853	TACCTTTCACTGTGGAGCCTTTCAGCCTGAGGGCTCTGTATCAGAAGATGGTGGACAAAG	912
Db	841	TACCTTTCACTGTGGAGCCTTTCAGCCTGAGGGCTCTGTATCAGAAGATGGTGGACAAAG	900
Qу	913	CAATGAATCCCCTGCCGACCCAGCTCTCCACAGGGGCCGTCAACTTTCTGCGCTCCCCCC	972
Db	901	CAATGAATCCCCTGCCGACCCAGCTCTCCACAGGGGCCGTCAACTTTCTGCGCTCCCTCC	960
Qy 1032	973	TGGAACCAGACCCTGTGAAGAGGCCGAATATCCAGCAAGCGCTGGCGAATCGCTGGTTGA	
Db 1020	961		
Qy 1092	1033	${\tt ATGAGAATTACACTGGAAAGGTGCCCTGCAATGTCACCTATCCCAACAGGATTTCTTTGG}$	•
Db 1080	1021		
Qy 1152	1093	AAGACCTGAGTCCCAGCGTGGTGCTGCACATGACTGAAAAGCTGGGCTATAAGAACAGTG	
Db 1140	1081	AAGACCTGAGTCCCAGCGTGGTGCTGCACATGACTGAAAAGCTGGGCTATAAGAACAGTG	
Qy 1212	1153	ACGTCATCAACACGGTGCTCTCCAACCGCGCCTGCCACATCCTGGCCATCTACTTCCTGT	
Db 1200	1141		
Qy 1272	1213	TGAACAAGAAACTTGAGCGCTATTTGTCAGGGAAATCAGATATCCAAGATAGCATCTGCT	
Db 1260	1201		
Qy 1332	1273	ACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCACCAAGGAGCCCTATGAGGCCT	

Db 1320	1261	ACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCACCAAGGAGCCCTATGAGGCCT
Qy 1392	1333	CCCTGGATACCTGGACGAGGGACTTTGAATTCCATGCTGTGCAGGATAAAAAGCCCAAAG
Db 1380	1321	
Qy 1452	1393	AACAAGAAAAAAGAGGTGATTTTCTCCACCGTCCGTTTTCCAAGAAGTTGGACAAGAACC
Db 1440	1381	
Qy 1512	1453	TGCCTTCTCACAAACAGCCATCGCCCTCGCTGATCACACAGCTCCAGAGTACCAAAGCCC
Db 1500	1441	
Qy 1572	1513	TGCTCAAAGACAGGAAGGCCTCCAAGTCAGGCTTCCCCGACAAAGATTCCTTCGTCTGCC
Db 1560	1501	
Qy 1632	1573	GCAATCTTTTCCGAAAAACCTCTGATTCCAATTGTGTGGCTTCTTCTTCCATGGAATTCA
Db 1620	1561	
Qy 1692	1633	TCCCTGTCCCACCTCCCAGGACACCAAGGATTGTAAAGAAACTAGAGCCACCAACCA
Db 1680	1621	
Qy 1752	1693	GGCCGGGAAGTGCCAGCATCCTCCCCAAGGAAGAGCCCCTGCTGCTGGATATGGTACGCT
Db 1740	1681	
Qy 1812	1753	CCTTTGAGTCTGTGGATCGAGAGGACCACATAGAACTGCTGTCCCCTTCTCACCATTATA
Db 1800	1741	
Qy 1872	1813	GGATCCTGAGCTCGCCTGTGAGCCTGGCTCGTAGGAATTCTAGTGAGAGGACACTCTCCC
Db 1860	1801	

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Db 1920	1861	
Qy 1992	1933	CTTTTGCCCACGAAGAAAAGAACAGCCCCCCGAAAGAGGGGGGTGTGTTCACCGCCTC
Db . 1980	1921	
Qy 2052	1993	CCGTTCCCAGTAATGGCCTCCTGCAGCCTCTGGGGAGCCCCAACTGTGTGAAGAGCAGGG
Db 2040	1981	
Qy 2112	2053	GACGGTTCCCCATGATGGGCATCGGACAGATGCTGAGGAAGCGGCACCAGAGCCTGCAGC
Db 2100	2041	
Qy 2172	2113	CTTCCTCAGAGAGGTCCCTGGACGCCAGCATGTCCCCTCTGCAGCCCATAGCCCCCTCCA
Db 2160	2101	
Qy 2232	2173	GCCTCTCCTTTGACATGGCCGACGGTGTCAAGGGCCAGTGTTAACCTGGGATGGCAAGAT
Db 2220	2161	
Qy 2292	2233	TCTGGGTCTCTGTGAGGACAGCCACGGAACAGAGCTCCACACAGGCAGCACCAGGGCAT
Db 2280	2221	
Qy 2352	2293	GGGTGAACAACCTCACGGGAGCATCCTTTATTCTTTTATACCTGCCACACAAAGTCCCAC
Db 2340	2281	
Qy 2410	2353	GCTTGTATCAGCTGAAGTCCACACTCAAAGTCCACGCACTTACTTAGGGACCCTCTGA
Db 2400	2341	
Ov	2411	GACGCTGCCACTAGGGGGAGGGGGAGGGGGGAGACTGTGGGAATCACACCTTCCAGCCTG

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Qy 2588	2529	AGAGCTAAAAACCACCCCCATCTGCTGGGCCAATCAGATTTCCAGACTGGTACCAGGT
Db 2580	2521	
Qy 2648	2589	TGTCCCTCCCCTCTCTGTGTGTCTCTCACAGTTCTGTAACTGACCGTCAGTGGTCAG
Db 2640	2581	
Qy 2708	2649	TTACAGTCTCACGCGGACGTGCCACTCGCTGGTAAGGACGTTCACCCAACCTAGGGATCC
Db 2700	2641	TTACAGTCTCACGCGGACGTGCCACTCGCTGGTAAGGACGTTCACCCAACCTAGGGATCC
Qy 2768	2709	CTCTACAGAGGGAAGCAACCCTCCTTTCCCTAACAGTGAGTCCCCACAGAGTGCTGAGTC
Db 2760	2701	
Qy 2828	2769	ACAGTGCTGGACCGGGAGGAAGATGGGATGGCGCCTCAGGACAGAGATGGAACCCAGCAGC
Db 2820	2761	
Qy 2885	2829	GAGAACCCAGGAGGAAGACGCTCAAACGCTCATTCCTGTGCAACGTTTTGACA
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Qy 2945	2886	GATTTTCTTTCCTCTCTTTTTTCCCCCTGACCTTTTCTTCTTTTTTGGGTTGAAACTT
Db 2937	2881	
Qу 3005	2946	GCTGAGGATTGAACGAACTTGTCCAAAGAGATCTTTCTTT

.

Db 2997	2938	GCTGAGGATTGAACGAACTTGTCCAAAGAGATCTTTCTTT
Qy 3060	3006	TTTTTTTTTAAAGACAGGGTCTCATTAAGTAGCCCAAGCTGGCTTCAAACTCAT
Db 3057	2998	
Qy 3120	3061	GATCCTCCTGCCTCAGCCTCCAAAGTGCTGAGATTACAAGTATATACCCGTGTCTGGCTC
Db 3117	3058	
Qy 3180	3121	AAAATAGCAATTCAAAAAACAAAAACTAGTTGGCCAGATGAAAAGTAGTTTTACCAAATTC
Db 3177	3118	
Qy 3231	3181	ACGTGTTTTTGTTTTTCTGAGAGGCTGCAGCTCAGATGGCCAAAAAAGCTGG
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Db 3297	3238	
Qy 3351	3292	TATACCGTGGCAGCAGCAGAAGGCATAGAACTTAGCTCCAGATGGCTCTGGAGAGAGA
Db 3357	3298	
Qy 3411	3352	AAGGATTCTTAAAGCAGAGTTGAGACAGCAAGAAGCAGGGAATTCGCTGTCATGCTGT
Db 3417	3358	
Qy 3471	3412	TCTGCCGTGGTTAGAACTTAGCTGTTCTGCTGGGAGCTAGGAGCAGGCTTGCCGCCCCCT
Db 3477	3418	
Qy 3531	3472	GGGAACACGCTCACAAGACGGTTCGTCCCCAAAGGAAACAGTGCCCCCCAAACAGGCTTT
Db 3537	3478	

Qy 3591	3532	CAGTCCACTCTGTAATCTGCACCTTCCCCTCCAGGATTGAACCAAAGATGCATTTCCGGT
Db 3597	3538	
Qy 3651	3592	TTTGTGACTGTGCCACTCTGTGTGTCTCTTGTGGAACCTGGTGTTGTCTGATCCTGTCCG
Db 3657	3598	
Qy 3711	3652	GCTGGCGCTGGATGGAGGACTGTCTCTGTGTGCATCGTGGGCCCTGGTACTTAGCAGAGG
Db 3717	3658	
Qy 3771	3712	ACAAAGGGTACTGTTGTCAGGAGGGGAAGACTTGGCACGGGCTGGACCACAGTTAGTT
Db 3777	3718	
Qy 3831	3772	GAAGTTATGGAACAGCTCAGAATCTTCTGGTCTTTGACTATTTCAGATGGGGTCAGAGAC
Db 3837	3778	
Qy 3891	3832	CAGAGCTGTAGCCAGGAAGCCAGGTTCATCATCTTGGTCCATCGATTCTAAAGTGGGCAA
Db 3897	3838	
Qy 3951	3892	ATTTCTGTGACGTCACAAAGCCGGCCTTTGCCAGTGAGGGCTGAGACACAGTACAACTGC
Db 3956	3898	
Qy 4011	3952	CTCTCATTTACTGGTGGCAGGCGGCTTCCTTTGGCCTCTCAGAGCTCTGACTGA
Db 4016	3957	
Qy 4071	4012	AGAGAACACGGATTTGGCTGACCCTGGAAGAAAGCTGCTCTAGTCCTGGCTGAATTTGGT
Db 4076	4017	
Qу	4072	${\tt AAGACCTGGACTACTTAAACCTTAGGGAGGGACTGACTCCCTCC$

4131		
Db 4136	4077	AAGACCTGGACTACTTAAACTTTAGGGAGGGACTGACTCCCTCC
Qy 4191	4132	GAGGAGGCCAGGCTTTTCTCCCAGAGCTGATGGTGTTCTTCATTCA
Db 4196	4137	
Qy 4251	4192	CAGCTCCCAGGACTTGACACTGAAAATAGAACTCTTTAAGCAGAGAGAG
Db 4256	4197	
Qy 4311	4252	TCCACAGACGCTCCCCGTATTTGATGTGACGTGTTTGAGCTTTGACGGGTGAAGAGTCCT
Db 4316	4257	
Qy 4371	4.312	TTTAAAAGATAACTGCCAGCTGCAGGCATCTGGCTCTGCAAAGCTGGTAGGATGTGTACC
Db 4376	4317	
Qy 4431	4372	TGTGTACTGTGCCCGCCCCCTTTCTCCTAGCCCTTTATGTCTTTTTCTGACTGTTTGCTT
Db 4436	4377	
Qy 4491	4432	TTCTCGTATGTATGTGTGCCTGTTGGTGCGAGCCTGTGGAGAAAGAGTCTCCCATCCT
Db 4496	4437	
Qy 4551	4492	TCAAATGCTTCGAGAACAGCGTCAGATGTACAACTAGTTTGCCTGCGTTGCTACTGGTAC
Db 4556	4497	
Qy 4611	4552	CTTGGACTCTGAACTCAGGTTACCCACCTGAGTCCTCAGTAGGCAGTGGACCCATTGAGA
Db 4616	4557	
Qy 4671	4612	GGCAAATGAGAACAGGAGGAGACAAGCTGTGTTCTGGGGCGCACATAAACACCTGACAG

-

4676	4017	GGCAAATGAGAACAGGAGAGACAAGCTGTGTTCTGGGGGCGCACATAAACACCTGACAG
Qy 4731	4672	ACGAGTCTAGGAAACCGCGTGAAAGAAGAAATGTTAAATTCTTTATTGTTTTATTATATT
Db 4736	4677	
Qy 4791	4732	${\tt TATATGGAAAATGTGGCTATCCTTTTGTTAAGTGCAGAGTGTATTGTCTGTTTGACCCAT}$
Db 4796	4737	TATACGGAAAATGTGGCTATCCTTTTGTTAAGTGCAGAGTGTATTATCTGTTTGACCCAT
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Qy 4906	4847	GATGGGAACGGCCGATCTGTCATCATGTGAAGTCCAGGAGGAAGAATCTATTTTAGTCAT
Db 4916	4857	
Qy 4965	4907	${\tt ACGA-TTTGGTCATGAGTAAGGACTATATTTATGTCACCACTATTGAATATATGTACTTT}.$
Db 4976	4917	
Qу	4966	TATAATGGCTGTGAAATACACTTTTTCCTCACAAAAAAAA
Db	4977	TATAATGGCTGTGAAATACACTTTTTCCTCACAAAAAAAA

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### us-10-032-256a-1.rng

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:

April 19, 2005, 23:13:42; Search time 2427 Seconds

(without alignments)

12254.133 Million cell updates/sec

Title:

US-10-032-256A-1

Perfect score:

5024

Sequence:

Scoring table:

IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

searched:

4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters:

8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

N\_Geneseq\_16Dec04:\* geneseqn1980s:\* geneseqn1990s:\* geneseqn2000s:\* geneseqn2001as:\* geneseqn2001bs:\* geneseqn2002as:\* geneseqn2002bs:\* geneseqn2003as:\* geneseqn2003bs:\* 10: geneseqn2003cs:\* genesegn2003ds:\* 11: geneseqn2004as:\* 12: geneseqn2004bs:\* 13:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### **SUMMARIES**

		%				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	2142	42.6	2142	8	AAL60328	Aal60328 Centrosom
2	2138.8	42.6	2142	8	AAL60327	Aal60327 Centrosom
3	1750	34.8	7385	4	AAH72843	Aah72843 Human cer
4	1714.6	34.1	2145	4	AAF44660	Aaf44660 Novel pro
5	1714.6	34.1	2145	12	ADI29358	Adi29358 Human MAR
6	484.2	9.6	675	12	ACH87498	Ach87498 Human gen
7	482.2	9.6	656	4	AAI19670	Aai19670 Probe #96
8	482.2	9.6	656	4	AAI20180	Aai20180 Probe #10
9	482.2	9.6	656	4	AAI20139	Aai20139 Probe #10
10	482.2	9.6	656	4	ABA65209	Aba65209 Human foe

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us-10-032-256a-1.rng
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                   9.6
                           656
                                                                   Aba64696 Human foe
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         482.2
482.2
                   9.6
   12
                           656
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                                                                   Aba65168 Human foe
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482.2
482.2
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656
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   16
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22
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7.9
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# ALIGNMENTS

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RESULT 1
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ID
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AC
     AAL60328;
XX
     27-AUG-2003 (first entry)
DT
XX
     Centrosome-associated kinase Mak V wild-type DNA.
DE
XX
     Centrosome-associated kinase; cell cycle progression; therapy; enzyme;
KW
KW
     cytostatic; Mak V; gene; ds.
XX
     Unidentified.
os
XX
     WO2003038078-A2.
PΝ
XX
     08-MAY-2003.
PD
XX
     31-OCT-2002; 2002WO-GB004940.
PF
XX
     02-NOV-2001: 2001GB-00026415.
PR
XX
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us-10-032-256a-1.rng
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PA
XX
PΙ
    Stott D, Seung-Woon S, Craig GM;
XX
DR'
    WPI; 2003-441358/41.
XX
    New centrosome-associated kinase with decreased or no kinase activity,
PT
    useful for identifying inhibitors or activators of cell cycle
PT
    progression, for use in manufacturing a treatment for uncontrolled cell
PT
PT
    cycle progression.
XX
    Disclosure; Page 16-17; 23pp; English.
PS
XX
    The invention relates to centrosome-associated kinase with decreased or no kinase activity useful for identifying inhibitors or activators of cell cycle progression. The invention is useful for identifying an
CC
CC
CC
    inhibitor or activator of cell cycle progression, which is useful in manufacturing a medicament for treating uncontrolled cell cycle
CC
CC
    progression. The present sequence is centrosome-associated kinase Mak V
CC
    wild-type DNA
CC
XX
    Sequence 2142 BP; 532 A; 620 C; 576 G; 414 T; 0 U; 0 Other;
SQ
                        42.6%; Score 2142; DB 8; Length 2142; 100.0%; Pred. No. 0;
 Best Local Similarity
                              0; Mismatches
 Matches 2142; Conservative
                                               0; Indels
                                                            0: Gaps
                                                                       0:
          72 ATGCCGGCAGCGGGGGGGCGGGCTCTTGGGCGAGCCGGCGCACCGGGGGGGCGATGGA 131
Qy
             1 ÁTGCCGGCÁGCGGCGGGGÁCGGGCTCTTGGGCGAGCCGGCGCGCACCGGGGGGCGATGGA 60
Db
         132 GGCGCGGAGGACACGACCAGGCCGGCGGCGGCCTGCGAGGGAAGTTTCCTGCCCGCCTGG 191
Qy
             61 GGCGCGAGGACACGACCAGGCCGGCGGCGGCCTGCGAGGGAAGTTTCCTGCCCGCCTGG 120
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         192 GTGAGCGGCGTGTCCCGCGAGCGGCTCCGGGACTTCCAGCACCACAAGCGCGTGGGCAAC 251
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             121 GTGAGCGGCGTGTCCCGCGAGCGGCTCCGGGACTTCCAGCACCACAAGCGCGTGGGCAAC 180
Db
         252 TACCTCATCGGCAGGAGGAGCTGGGAGAGGGCTCCTTCGCCAAGGTGCGCGAGGGGCTG 311
Qy
             181 TACCTCATCGGCAGCAGGAAGCTGGGAGAGGGCTCCTTCGCCAAGGTGCGCGAGGGGCTG 240
Db
         312 CACGTGCTGACGGGAGAAAAGGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAA 371
Qy
              241 CACGTGCTGACGGGAGAAAAGGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAA 300
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         372 GACACCTACGTCACCAAAAACCTGCGTCGAGAGGGGCAGATCCAGCAGATGATCCGACAC 431
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         301 GÁCACCTÁCGTCÁCCAAAAACCTGCGTCGAGAGGGGCAGATCCAGCAGATGATCCGACAC 360
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         552 GCCGAGGCCCGCAGATACATCCGGCAACTCATCTCTGCGGTGGAACACCTGCACCGTGCG 611
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Db

		us-10-032-256a-1.rng	
Qy		GGGGTGGTTCACAGAGACTTGAAGATAGAGAATTTGCTACTAGATGAAGACAATAATATC	
Db		GGGGTGGTTCACAGAGACTTGAAGATAGAGAAATTTGCTACTAGATGAAGACAATAATATC	
Qy - '		AAGCTGATTGACTTTGGCTTGAGCAACTGTGCAGGGATCCTAGGTTACTCGGATCCATTC	
Db		AÁGCTGÁTTGÁCTTTGÁCTTGÁGCAÁCTGTGCÁGGGÁTCCTÁGGTTÁCTCGGÁTCCÁTTC  AGCACACAGTGTGGCAGCCCTGCCTATGCTGCGCCAGAACTGCTTGCCAGGAAGAAATAT	
Qy Db -		AGCACACAGTGTGGCAGCCCTGCCTATGCTGCGCCAGAACTGCTTGCCAGGAAGAAATAT	
Qy		GGCCCCAAAATTGATGTCTGGTCAATAGGCGTGAACATGTATGCCATGCTGACGGGGACC	
Dp			
Qy		CTACCTTTCACTGTGGAGCCTTTCAGCCTGAGGGCTCTGTATCAGAAGATGGTGGACAAA	911
Db	781	CTACCTTTCACTGTGGAGCCTTTCAGCCTGAGGGCTCTGTATCAGAAGATGGTGGACAAA	
Qy	912	GCAATGAATCCCCTGCCGACCCAGCTCTCCACAGGGGCCGTCAACTTTCTGCGCTCCCTC	971
Db	841		900
Qy	972	CTGGAACCAGACCCTGTGAAGAGGCCGAATATCCAGCAAGCGCTGGCGAATCGCTGGTTG	1031
Db	901	ctggaaccagacctgtgaagaccgaatatccagcaagcgctggcgaatcgctggttg	960
Qy		AATGAGAATTACACTGGAAAGGTGCCCTGCAATGTCACCTATCCCAACAGGATTTCTTTG	
Db		AATGAGAATTACACTGGAAAGGTGCCCTGCAATGTCACCTATCCCAACAGGATTTCTTTG	
Qy		GAAGACCTGAGTCCCAGCGTGGTGCTGCACATGACTGAAAAGCTGGGCTATAAGAACAGT	
Db		GÁAGACCTGÁGTCCCÁGCGTGGTGCTGCÁCATGÁCTGÁAÁAAGCTGGGCTATAAGAACAGT	
Qy Dh		GACGTCATCAACACGGTGCTCTCCAACCGCGCCTGCCACATCCTGGCCATCTACTTCCTG	
Db Ov		TTGAACAAGAAACTTGAGCGCTATTTGTCAGGGAAATCAGATATCCAAGATAGCATCTGC	
Qy Db			
Qy		TACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCACCAAGGAGCCCTATGAGGCC	: 1331
Db	1201	TACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCACCAAGGAGCCCTATGAGGCC	1260
Qy	1332	TCCCTGGATACCTGGACGAGGGACTTTGAATTCCATGCTGTGCAGGATAAAAAGCCCAAA	1391
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Qy	1452	CTGCCTTCTCACAAACAGCCATCGCCCTCGCTGATCACACAGCTCCAGAGTACCAAAGCC	1511
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# us-10-032-256a-1.rng

Qy	1572 CGCAATCTTTTCCGAAAAACCTCTGATTCCAATTGTGTGGCTTCTTCCATGGAATTC 1631
Dp	1501 CGCAATCTTTTCCGAAAAACCTCTGATTCCAATTGTGTGGCTTCTTCCATGGAATTC 1560
Qy	1632 ATCCCTGTCCCACCTCCCAGGACACCAAGGATTGTAAAGAAACTAGAGCCACCAACCA
DP	1561 ATCCCTGTCCCACCTCCCAGGACACCAAGGATTGTAAAGAAACTAGAGCCACACCAACCA
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Dp	1621 GGGCCGGGAAGTGCCAGCATCCTCCCCAAGGAAGAGCCCCTGCTGGATATGGTACGC 1680
Qy	1752 TCCTTTGAGTCTGTGGATCGAGAGGACCACATAGAACTGCTGTCCCCTTCTCACCATTAT 1811
Db	1681 tcctttgagtctgtggatcgagagaccacatagaactgctgtccccttctcaccattat 1740
Qy	1812 AGGATCCTGAGCTCGCCTGTGAGCCTGGCTCGTAGGAATTCTAGTGAGAGGACACTCTCC 1871
Dp	1741 ÁGGÁTCCTGÁGCTCGCCTGTGÁGCCTGGCTÁGGÁÁTTCTÁGTGÁGÁGÁGÁ
Qy	1872 CAGGGGCTGCTGTCCGGAAGTACCTCACCTCTCCAAACTCCACTGCATTCCACGCTGGTC 1931
Db	1801 CAGGGGCTGCTGTCCGGAAGTACCTCACCTCTCCAAACTCCACTGCATTCCACGCTGGTC 1860
Qy	1932 TCTTTTGCCCACGAAGAAAGAACAGCCCCCCGAAAGAGGGGGGGTGTGTGT
Db	1861 ŤĊŤŤŤŤĠĊĊĊÁĊĠÁÁĠÁÁÁÁĠÁÁĊÁĠĊĊĊĊĊĠÁÁAGÁĠĠĠĠĠĠĠĠĠĠ
Qy	1992 CCCGTTCCCAGTAATGGCCTCCTGCAGCCTCTGGGGAGCCCCAACTGTGTGAAGAGCAGG 2051
Db	1921 CCCGTTCCCAGTAATGGCCTCCTGCAGCCTCTGGGGAGCCCCAACTGTGTGAAGAGCAGG 1980
Qy	2052 GGACGGTTCCCCATGATGGGCATCGGACAGATGCTGAGGAAGCGGCACCAGAGCCTGCAG 2111
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Qy	2112 CCTTCCTCAGAGAGGTCCCTGGACGCCAGCATGTCCCCTCTGCAGCCCCATAGCCCCCTCC 2171
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Qy	2172 AGCCTCTCTTTGACATGGCCGACGGTGTCAAGGGCCAGTGT 2213
Dp	2101 AGCCTCTCTTGACATGGCCGACGGTGTCAAGGGCCAGTGT 2142

### us-10-032-256a-1.rnpb

### GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on:

April 20, 2005, 05:51:28 ; Search time 2639 Seconds

(without alignments) 11549.510 Million cell updates/sec

Title:

US-10-032-256A-1

Perfect score:

5024

Sequence:

Scoring table:

IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched:

5622541 seqs, 3033355566 residues

Total number of hits satisfying chosen parameters:

11245082

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published\_Applications\_NA:\*

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20:

/cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\* 21: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	484.2	9.6	675	16	US-10-029-386-20693	Sequence 20693, A

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482.2
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Sequence 17590, A
Sequence 17630, A
Sequence 20066, A
Sequence 224, App
Sequence 72, Appl
Sequence 389, App
Sequence 186, App
Sequence 3290, Ap
Sequence 326, App
Sequence 807, App
Sequence 849, App
Sequence 17591, A
Sequence 17631, A
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Sequence 17631, A
Sequence 325, App
Sequence 6982, Ap
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Sequence 19070, A
Sequence 19070, A
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Sequence 519, App
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Sequence 2343, Ap
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Sequence 29601, A
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### **ALIGNMENTS**

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RESULT 1
US-10-029-386-20693
; Sequence 20693, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GENE
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
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us-10-032-256a-1.rnpb
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  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
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   LENGTH: 675
   TYPE: DNA
   ORGANISM: Homo sapiens
   FEATURE:
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   OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.8
   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.8
   OTHER INFORMATION: EXPRESSED IN BOINE MARROW, SIGNAL - 2.0 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.3 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.5 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.1 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.7 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.8 OTHER INFORMATION: NT HIT: gi14780177, EVALUE 0.00e+00 OTHER INFORMATION: SWISSEDOT HIT: P57058 EVALUE 1.00e-100
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   OTHER INFORMATION: EST_HUMAN HIT: BF529471.1, EVALUE 0.00e+00
us-10-029-386-20693
                     9.6%; Score 484.2; DB 16; Length 675; 83.6%; Pred. No. 3.9e-127;
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 Matches 549; Conservative
                             0; Mismatches 108;
                                                 Indels
                                                          0:
                                                             Gaps
                                                                    0:
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Qy
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# us-10-032-256a-1.rnpb

Qy	2156 GCCCATAGCCCCCTCCAGCCTCTCCTTTGACATGGCCGACGGTGTCAAGGGCCAGTG 2212
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Db	618 GCCCTAGCCCTGTGAACCTTGCCTTTGACATGGCCGATGGGGTCAAGACCCAGTG 674

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 19, 2005, 23:17:42; Search time 14801 Seconds

(without alignments)

12920.403 Million cell updates/sec

Title: US-10-032-256A-1

Perfect score: 5024

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 segs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: gb\_est2:\*

3: gb\_htc:\*

4: gb est3:\*

5: gb est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gss1:\*

9: gb gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

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	4	779.4	15.5	864	6	CA325070	CA325070 UI-M-FY0-			
	5	770	15.3	771	6	CB249687	CB249687 UI-M-EX0-			
	6	769.4	15.3	775	6	CA316433	CA316433 UI-M-FW0-			
	7	759	15.1	810	6	CB518393	CB518393 UI-M-GH0-			
	8	753.2	15.0	805	7	CF729648	CF729648 UI-M-HD0-			

	9	748	14.9	760	7	CK635586	CK635586	UI-M-HNO-
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	11	732.8	14.6	736	6	CB245694	CB245694	UI-M-FY0-
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	13	723	14.4	735	6	CA328675	CA328675	UI-M-FY0-
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	16	712.4	14.2	715	7	CN531867	CN531867	UI-M-HQ0-
	17	711.2	14.2	724	6	CD351138	CD351138	UI-M-FY0-
	18	703.4	14.0	716	7	CN456014	CN456014	UI-M-HNO-
	19	703	14.0	703	7	CF733065	CF733065	UI-M-HB0-
	20	700.6	13.9	708	5	BM945579	BM945579	UI-M-EMO-
	21	699.4	13.9	732	7.	CO429800	CO429800	UI-M-HXO-
	22	698.4	13.9	770	6	CB526563	CB526563	UI-M-FY0-
	23	692.4	13.8	717	6	BY741170	BY741170	BY741170
	24	684	13.6	684	5	BQ444125	BQ444125	UI-M-EXO-
	25	683	13.6	862	6	CB204649	CB204649	AGENCOURT
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# ALIGNMENTS

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LOCUS
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                                               mRNA
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                                                                EST 26-AUG-2002
DEFINITION
           UI-M-F00-bzz-h-14-0-UI.rl NIH BMAP F00 Mus musculus cDNA clone
            IMAGE: 6412861 5', mRNA sequence.
ACCESSION
            BU056886
VERSION
            BU056886.1 GI:22496963
            EST.
KEYWORDS
SOURCE
            Mus musculus (house mouse)
  ORGANISM Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
            1 (bases 1 to 791)
 AUTHORS
            NIH-MGC http://mgc.nci.nih.gov/.
  TITLE
            National Institutes of Health, Mammalian Gene Collection (MGC)
```

RESULT 1

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JOURNAL
           Unpublished (1999)
COMMENT
           Contact: Robert Strausberg, Ph.D.
           Email: cgapbs-r@mail.nih.gov
           Tissue Procurement: Dr. Jim Lin, University of Iowa
            cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
            cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
            DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
            Clone Distribution: MGC clone distribution information can be
           found through the I.M.A.G.E. Consortium/LLNL at:
           http://image.llnl.gov
            This clone was contributed by the Brain Molecular Anatomy Project
           (BMAP)
           Seq primer: pYX-5.
FEATURES
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                   /dev stage="embryo 12.5dpc"
                   /lab host="DH10B (T1 phage resistant)"
                   /clone lib="NIH BMAP FOO"
                   /note="Organ: Brain; Vector: pYX- Asc; Site_1: EcoR I;
                   Site 2: Not I; The library was constructed according
                   Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
                   1996. Denatured RNA was size fractionated on a 1% agarose
                   gel. First strand cDNA synthesis was primed with oligo-dT
                   primer containing a Not I site. Double strand cDNA was
                   size selected according to mRNA size fraction, ligated
                   with EcoR I adaptor, digested with NotI and then cloned
                   directionally into pYX-Asc vector. The library tag
                   sequence located between the Not I site and the polyA tail
                   is TGAGAGACC. This library was created for the University
                   Iowa Brain Anatomy Project (BMAP): 'Gene Discovery in the
                   Developing Mouse Nervous System', supported by National
                   Institute of Mental Health (NIMH), Hemin Chin, Ph.D.,
                   program coordinator."
ORIGIN
                        15.6%; Score 785.2; DB 5;
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                                                   Length 791;
                        99.5%; Pred. No. 1.3e-176;
 Best Local Similarity
                              0; Mismatches
                                                            0; Gaps
 Matches 787; Conservative
                                               4:
                                                   Indels
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Qy
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Qу
             Db
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         629 CTTGAAGATAGAGAATTTGCTACTAGATGAAGACAATAATATCAAGCTGATTGACTTTGG 688
Qу
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Db

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Qу	1229	GCGCTATTTGTCAGGGAAATCAGATATCCAAGATAGCATCTGCTACAAGACCCAGCTCTA	1288
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Qу	1289	CCAGATAGAGA 1299	
Db	781	CCAGATAGAGA 791	

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame plus n2p model Run on: April 20, 2005, 09:58:04; Search time 312 Seconds (without alignments) 12455.668 Million cell updates/sec Title: US-10-032-256A-1 Perfect score: 9026 . Sequence: Scoring table: BLOSUM62 Xgapop 10.0 , Xgapext 0.5 Ygapop 10.0 , Ygapext 0.5 Fgapop 6.0, Fgapext 7.0 Delop 6.0 , Delext 2105692 segs, 386760381 residues Searched: Total number of hits satisfying chosen parameters: 4211384 Minimum DB seq length: 0 Maximum DB seq length: 2000000000 Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Command line parameters: -MODEL=frame+ n2p.model -DEV=xlh Q=/cgn2 1/USPTO spool/US10032256/runat 19042005 181218 13540/app query.fasta 1.5 -DB=A Geneseq 16Dec04 -QFMT=fastan -SUFFIX=n2p.rag -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000 -USER=US10032256 @CGN 1 1 366 @runat 19042005 181218 13540 -NCPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7 A Geneseq 16Dec04:\* Database : 1: geneseqp1980s:\* 2: geneseqp1990s:\* 3: geneseqp2000s:\* 4: geneseqp2001s:\* 5: geneseqp2002s:\* 6: geneseqp2003as:\*

Pred. No. is the number of results predicted by chance to have a

7: geneseqp2003bs:\* geneseqp2004s:\*

8:

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
	2722	41 2	714		77020754	20754 Control
1	3722 3476	41.2 38.5	714 714	6 4	AAO29754 AAB65633	Aao29754 Centrosom
2 3			714	8	ADI29240	Aab65633 Novel pro Adi29240 Human MAR
	3476	38.5	218	4		
4	983	10.9	218	4	AAM13906	Aam13906 Peptide #
5 6	983	10.9	218	4	AAM14403	· Aam14403 Peptide #
	983	10.9			ABB32851	Abb32851 Peptide #
7	983	10.9	218	4 4	ABB33351 AAM26312	Abb33351 Peptide #
8	983	10.9	218			Aam26312 Peptide #
9	983	10.9	218	4	AAM26816	Aam26816 Peptide #
10	983	10.9	218	4	ABB27681	Abb27681 Human pep
11	983	10.9	218	4	ABB28176	Abb28176 Human pep
12	983	10.9	218	4	ABB18811	Abb18811 Protein #
.13	983	10.9	218	4	ABB18333	Abb18333 Protein #
14	983	10.9	218	4	AAM66037	Aam66037 Human bon
15	983	10.9	218	4	AAM66530	Aam66530 Human bon
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17	983	10.9	218	4	AAM54137	Aam54137 Human bra
18	983	10.9	218	4	ABG47703	Abg47703 Human liv
19	983	10.9	218	4	ABG48198	Abg48198 Human liv
20	983	10.9	218	4	AAM01649	Aam01649 Peptide #
21	983	10.9	218	4	AAM02130	Aam02130 Peptide #
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23	983	10.9	218	5	ABG35685	Abg35685 Human pep
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25	761	8.4	157	4	AAU17272	Aau17272 Novel sig
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28	761	8.4	157	4	AAM42584	Aam42584 Human kid
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32	651	7.2	744	5	AAE19049	Aae19049 Human PAR
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36	649.5	7.2	729			Aae33552 Human mic
37	649.5	7.2	729	7.		Adc34765 Human C-T
38	649.5	7.2	729	7	ADG91724	Adg91724 Human mic
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DT
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XX
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     Stott D, Seung-Woon S, Craig GM;
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DR
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     N-PSDB; AAL60327.
DR
XX
     New centrosome-associated kinase with decreased or no kinase activity,
PT
     useful for identifying inhibitors or activators of cell cycle
PΤ
PT
     progression, for use in manufacturing a treatment for uncontrolled cell
PT
     cycle progression.
XX
     Claim 2; Page 14-16; 23pp; English.
PS
XX
CC
     The invention relates to centrosome-associated kinase with decreased or
     no kinase activity useful for identifying inhibitors or activators of
CC
CC
     cell cycle progression. The invention is useful for identifying an
CC
     inhibitor or activator of cell cycle progression, which is useful in
     manufacturing a medicament for treating uncontrolled cell cycle
CC
     progression. The present sequence is centrosome-associated kinase Mak V
CC
CC
     mutant protein
XX
SQ
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Alignment Scores:
Pred. No.:
                                                       714
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Score:
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Percent Similarity:
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Best Local Similarity: 99.86%
                                        Indels:
Query Match:
                         41.24%
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DB: 6 Gaps: 0

US-10-032-256A-1 (1-5024) x AAO29754 (1-714)

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Db	21	GlyAlaGluAspThrThrArgProAlaAlaAlaCysGluGlySerPheLeuProAlaTrp	40
Qу	192	GTGAGCGGCGTGTCCCGCGAGCGGCTCCGGGACTTCCAGCACCACAAGCGCGTGGGCAAC	251
Db	41	ValSerGlyValSerArgGluArgLeuArgAspPheGlnHisHisLysArgValGlyAsn	60
Qу	252	TACCTCATCGGCAGCAGGAAGCTGGGAGAGGGCTCCTTCGCCAAGGTGCGCGAGGGGCTG	311
Db	61	TyrLeuIleGlySerArgLysLeuGlyGluGlySerPheAlaLysValArgGluGlyLeu	80.
Qу	312	CACGTGCTGACGGGAGAAAGGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAA	371
Db	81	HisValLeuThrGlyGluLysValAlaIleArgValIleAspLysLysArgAlaLysLys	100
Qу	372	GACACCTACGTCACCAAAAACCTGCGTCGAGAGGGGCAGATCCAGCAGATGATCCGACAC	431
Ďр	101	AspThrTyrValThrLysAsnLeuArgArgGluGlyGlnIleGlnGlnMetIleArgHis	120
Qу	432	CCCAACATCACAGGCTCCTGGACATCTTGGAGACAGAGAACAGCTACTACCTGGTCATG	491
Db	121	ProAsnIleThrGlnLeuLeuAspIleLeuGluThrGluAsnSerTyrTyrLeuValMet	140
Qу	492	GAGCTGTGTCCTGGTGGCAACCTCATGCACAAGATCTACGAAAAGAAACGGTTGGATGAA	551
Db	141	GluLeuCysProGlyGlyAsnLeuMetHisLysIleTyrGluLysLysArgLeuAspGlu	160
QУ	552	GCCGAGGCCCGCAGATACATCCGGCAACTCATCTCTGCGGTGGAACACCTGCACCGTGCG	611
Db	161	AlaGluAlaArgArgTyrIleArgGlnLeuIleSerAlaValGluHisLeuHisArgAla	180
Qу	612	GGGGTGGTTCACAGAGACTTGAAGATAGAGAATTTGCTACTAGATGAAGACAATAATATC	671
Db	181	GlyValValHisArgAspLeuLysIleGluAsnLeuLeuLeuAspGluAspAsnAsnIle	200
Qy	672	AAGCTGATTGACTTTGGCTTGAGCAACTGTGCAGGGATCCTAGGTTACTCGGATCCATTC	731
Db	201	LysLeuIleAspPheGlyLeuSerAsnCysAlaGlyIleLeuGlyTyrSerAspProPhe	220
Qу	732	AGCACACAGTGTGGCAGCCCTGCCTATGCTGCGCCAGAACTGCTTGCCAGGAAGAAATAT	791
Db	221	SerThrGlnCysGlySerProAlaTyrAlaAlaProGluLeuLeuAlaArgLysLysTyr	240
Qу	792	GGCCCCAAAATTGATGTCTGGTCAATAGGCGTGAACATGTATGCCATGCTGACGGGGACC	851
Db	241	GlyProLysIleAspValTrpSerIleGlyValAsnMetTyrAlaMetLeuThrGlyThr	260
Qу	852	CTACCTTTCACTGTGGAGCCTTTCAGCCTGAGGGCTCTGTATCAGAAGATGGTGGACAAA	911

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QУ	972	CTGGAACCAGACCCTGTGAAGAGGCCGAATATCCAGCAAGCGCTGGCGAATCGCTGGTTG	1031
Db	301		320
Qy	1032	AATGAGAATTACACTGGAAAGGTGCCCTGCAATGTCACCTATCCCAACAGGATTTCTTTG	1091
Db	321		340
Qу	1092	GAAGACCTGAGTCCCAGCGTGGTGCTGCACATGACTGAAAAGCTGGGCTATAAGAACAGT	1151
Db	341		360
Qу	1152	GACGTCATCAACACGGTGCTCTCCAACCGCGCCTGCCACATCCTGGCCATCTACTTCCTG	1211
Db	361		380
Qy	1212	TTGAACAAGAAACTTGAGCGCTATTTGTCAGGGAAATCAGATATCCAAGATAGCATCTGC	1271
Db	381	LeuAsnLysLysLeuGluArgTyrLeuSerGlyLysSerAspIleGlnAspSerIleCys	400
Qу	1272	TACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCACCAAGGAGCCCTATGAGGCC	1331
Db	401		420
Qу	1332	TCCCTGGATACCTGGACGAGGGACTTTGAATTCCATGCTGTGCAGGATAAAAAGCCCAAA	1391
Db	421	SerLeuAspThrTrpThrArgAspPheGluPheHisAlaValGlnAspLysLysProLys	440
Qу	1392	GAACAAGAAAAAAGAGGTGATTTTCTCCACCGTCCGTTTTCCAAGAAGTTGGACAAGAAC	1451
Db	441	GluGlnGluLysArgGlyAspPheLeuHisArgProPheSerLysLysLeuAspLysAsn	460
Qу	1452	CTGCCTTCTCACAAACAGCCATCGCCCTCGCTGATCACACAGCTCCAGAGTACCAAAGCC	1511
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Qy	1512	CTGCTCAAAGACAGGAAGGCCTCCAAGTCAGGCTTCCCCGACAAAGATTCCTTCGTCTGC	1571
Db	481	LeuLeuLysAspArgLysAlaSerLysSerGlyPheProAspLysAspSerPheValCys	500
Qу	1572	CGCAATCTTTTCCGAAAAACCTCTGATTCCAATTGTGTGGCTTCTTCCATGGAATTC	1631
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Qу	1632	ATCCCTGTCCCACCTCCCAGGACACCAAGGATTGTAAAGAAACTAGAGCCACCAACCA	1691
Db	521		540
Qу	1692	GGGCCGGGAAGTGCCAGCATCCTCCCCAAGGAAGAGCCCCTGCTGCTGGATATGGTACGC	1751

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מע	541	GIYPROGIYSERALASERITELEUPROLYSGIUGIUPROLEULEULEUASPMETVALARG	560
Qy	1752	TCCTTTGAGTCTGTGGATCGAGAGGACCACATAGAACTGCTGTCCCCTTCTCACCATTAT	1811
Db	561	SerPheGluSerValAspArgGluAspHisIleGluLeuLeuSerProSerHisHisTyr	580
Qy	1812	AGGATCCTGAGCTCGCCTGTGAGCCTGGCTCGTAGGAATTCTAGTGAGAGGACACTCTCC	1871
Db .	581	ArgIleLeuSerSerProValSerLeuAlaArgArgAsnSerSerGluArgThrLeuSer	600
Qy	1872	CAGGGGCTGCTGTCCGGAAGTACCTCACCTCTCCAAACTCCACTGCATTCCACGCTGGTC	1931
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Qу	1932	TCTTTTGCCCACGAAGAAAGAACAGCCCCCCGAAAGAGGGGGGTGTGTTCACCGCCT	1991
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Qу	2052	GGACGGTTCCCCATGATGGGCATCGGACAGATGCTGAGGAAGCGGCACCAGAGCCTGCAG	2111
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Db	681		700
Qy	2172	AGCCTCTCCTTTGACATGGCCGACGGTGTCAAGGGCCAGTGT 2213	
Db	701		

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#### us-10-032-256a-1.n2p.rapb

#### GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model April 20, 2005, 16:33:04; Search time 268.5 Seconds Run on: (without alignments)
12438.215 Million cell updates/sec US-10-032-256A-1 Title: Perfect score: 9026 Sequence: Scoring table: BLOSUM62 Xgapop 10.0 , Xgapext 0.5 Ygapop 10.0 , Ygapext Fgapop 6.0 , Fgapext 7.0 7.0 Delop 6.0 , Delext searched: 1421835 segs, 332370683 residues Total number of hits satisfying chosen parameters: 2843670 Minimum DB seq length: 0
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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Ś	761	8.4	157	11	us-09-764-875-987	Sequence 987, App
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ž	651	7.2	744	9	us-09-919-585-3	Sequence 3, Appli
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  GENERAL INFORMATION:
  APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
                Hanzel, David K.
   APPLICANT:
   APPLICANT:
                Chen, Wensheng
   TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL
FOR
   TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
   FILE REFERENCE: Aeomica-X-1
   CURRENT APPLICATION NUMBER: US/09/864,761
   CURRENT FILING DATE:
                           2001-05-23
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   PRIOR FILING DATE: 2000-02-04
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   PRIOR FILING DATE: 2000-09-21
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   PRIOR FILING DATE: 2000-06-30
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# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame plus n2p model

Run on: April 20, 2005, 15:00:38; Search time 77.5 Seconds

(without alignments)

12474.659 Million cell updates/sec

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Searched: 283416 segs, 96216763 residues

Total number of hits satisfying chosen parameters: 566832

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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3 601.5 6.7 1192 2 T18611 probable serine/th 4 600 6.6 774 2 148609 probable serine/th 5 594.5 6.6 1246 2 G89287 protein H39E23.1 [ 6 594 6.6 726 2 T33998 hypothetical prote 7 592 6.6 562 2 T29858 hypothetical prote 8 591.5 6.6 891 2 T40503 protein kinase kin 9 589.5 6.5 891 2 A38903 protein kinase kin 10 574 6.4 504 2 T10449 probable serine/th 11 573.5 6.4 798 2 JC7500 qik protein - chic 12 565 6.3 512 2 T52633 serine/threonine-s 13 564.5 6.3 651 2 S52244 p69Eg3 protein - A 14 562.5 6.2 1398 2 T13741 hypothetical prote 15 554 6.1 511 1 A56009 serine/threonine-s 16 548.5 6.1 633 1 A26030 serine/threonine-s 17 547 6.1 453 2 G86141 protein T25K16.13 18 545.5 6.0 622 1 S44859 serine/threonine-s 19 543.5 6.0 504 2 T07415 probable serine/th 20 543.5 6.0 502 1 JC1446 serine/threonine-s 21 543 6.0 552 1 A53621 [hydroxymethylglut 22 542 6.0 552 1 A53621 [hydroxymethylglut 23 541 6.0 480 2 A86427 probable serine/th 24 540.5 6.0 576 2 T41587 probable serine/th 25 535 5.9 602 2 S72513 FOG2 probable serine/th 26 533.5 5.9 602 2 S72513 FOG2 probable serine/th 27 533 5.9 1147 2 S64930 serine/threonine- y 28 531.5 5.9 445 2 T0903 serine/threonine p 29 531 5.9 510 2 T04145 serine/threonine p 28 531.5 5.9 445 2 T0903 serine/threonine p 29 531 5.9 510 2 T04145 serine/threonine p 29 531 5.9 510 2 T04145 serine/threonine p 29 531 5.9 510 2 T04145 serine/threonine p 20 531 5.9 5.8 441 2 C84667 probable serine/th 21 527.5 5.8 441 2 T09903 serine/threonine p 22 525 5.8 473 1 S59941 serine/threonine-s 23 525 5.8 473 1 S59941 serine/threonine-s 24 508.5 5.6 502 1 A4361 serine/threonine-s 25 503.5 5.7 440 2 T14735 probable serine/th 26 515.5 5.7 513 1 S60303 serine/threonine-s 27 533 5.9 147 2 S64930 serine/threonine-s 28 531.5 5.7 5.8 441 2 C84667 probable serine/th 29 531 5.9 5.0 502 1 A4361 serine/threonine-s 20 525 5.8 473 1 S59941 serine/threonine-s 21 543 55.5 5				745		G01025	serine/threonine p
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22       542       6.0       552       1       S51025       [hydroxymethylglut         23       541       6.0       480       2       A86427       probable serine/th         24       540.5       6.0       576       2       T41587       probable carbon ca         25       535       5.9       672       2       T50259       probable serine/th         26       533.5       5.9       602       2       S72513       FOG2 protein - yea         27       533       5.9       1147       2       S64930       serine/threonine-s         28       531.5       5.9       445       2       T50802       serine/threonine p         30       529       5.9       445       2       T09903       serine/threonine-s         31       527.5       5.8       441       2       C84667       probable protein k         32       525       5.8       441       2       C84667       probable protein kinase - m         34       525       5.8       481       2       149072       probable serine/th         35       517.5       5.7       440       2       T14735       probable serine/th							
23       541       6.0       480       2       A86427       probable serime/th         24       540.5       6.0       576       2       T41587       probable carbon ca         25       535       5.9       672       2       T50259       probable serine/th         26       533.5       5.9       602       2       S72513       FOG2 protein - yea         27       533       5.9       1147       2       S64930       serine/threonine-s         28       531.5       5.9       445       2       T50802       serine/threonine-p         29       531       5.9       510       2       T04145       serine/threonine-p         30       529       5.9       445       2       T09903       serine/threonine-s         31       527.5       5.8       441       2       C84667       probable protein k         32       525       5.8       471       2       S59941       serine/threonine-s         33       525       5.8       481       2       1749072       probable serine/th         35       517.5       5.7       440       2       T14735       probable serine/th <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
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30       529       5.9       445       2       T09903       serine/threonine-s         31       527.5       5.8       441       2       C84667       probable protein k         32       525       5.8       473       1       S59941       serine/threonine-s         33       525       5.8       481       2       I49072       protein kinase - m         34       525       5.8       512       2       T07788       probable serine/th         35       517.5       5.7       440       2       T14735       probable serine/th         36       515.5       5.7       513       1       S60303       serine/threonine-s         37       514.5       5.7       489       2       T04862       probable serine/th         38       513       5.7       887       2       T20941       hypothetical prote         39       510.5       5.7       421       2       E96522       hypothetical prote         40       510.5       5.7       421       2       E96522       hypothetical prote         41       509.5       5.6       502       1       A41361       serine/threonine-s         <							<del>-</del>
31 527.5 5.8 441 2 C84667 probable protein k 32 525 5.8 473 1 S59941 serine/threonine-s 33 525 5.8 481 2 I49072 protein kinase - m 34 525 5.8 512 2 T07788 probable serine/th 35 517.5 5.7 440 2 T14735 probable serine/th 36 515.5 5.7 513 1 S60303 serine/threonine-s 37 514.5 5.7 489 2 T04862 probable serine/th 38 513 5.7 887 2 T20941 hypothetical prote 39 510.5 5.7 421 2 T48202 protein kinase AK2 40 510.5 5.7 421 2 E96522 hypothetical prote 41 509.5 5.6 502 1 A41361 serine/threonine-s 42 508.5 5.6 440 2 T14736 probable serine/th 43 508 5.6 746 2 S62365 SNF1-related prote 44 505.5 5.6 472 2 B90100 SNF-related kinase							<del>-</del>
32       525       5.8       473       1       S59941       serine/threonine-s         33       525       5.8       481       2       I49072       protein kinase - m         34       525       5.8       512       2       T07788       probable serine/th         35       517.5       5.7       440       2       T14735       probable serine/th         36       515.5       5.7       513       1       S60303       serine/threonine-s         37       514.5       5.7       489       2       T04862       probable serine/th         38       513       5.7       887       2       T20941       hypothetical prote         39       510.5       5.7       421       2       T48202       protein kinase AK2         40       510.5       5.7       421       2       E96522       hypothetical prote         41       509.5       5.6       502       1       A41361       serine/threonine-s         42       508.5       5.6       440       2       T14736       probable serine/th         43       508       5.6       746       2       S62365       SNF1-related kinase <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
33 525 5.8 481 2 I49072 protein kinase - m 34 525 5.8 512 2 T07788 probable serine/th 35 517.5 5.7 440 2 T14735 probable serine/th 36 515.5 5.7 513 1 S60303 serine/threonine-s 37 514.5 5.7 489 2 T04862 probable serine/th 38 513 5.7 887 2 T20941 hypothetical prote 39 510.5 5.7 421 2 T48202 protein kinase AK2 40 510.5 5.7 421 2 E96522 hypothetical prote 41 509.5 5.6 502 1 A41361 serine/threonine-s 42 508.5 5.6 440 2 T14736 probable serine/th 43 508 5.6 746 2 S62365 SNF1-related prote 44 505.5 5.6 472 2 B90100 SNF-related kinase							
34       525       5.8       512       2       T07788       probable serine/th         35       517.5       5.7       440       2       T14735       probable serine/th         36       515.5       5.7       513       1       S60303       serine/threonine-s         37       514.5       5.7       489       2       T04862       probable serine/th         38       513       5.7       887       2       T20941       hypothetical prote         39       510.5       5.7       421       2       T48202       protein kinase AK2         40       510.5       5.7       421       2       E96522       hypothetical prote         41       509.5       5.6       502       1       A41361       serine/threonine-s         42       508.5       5.6       440       2       T14736       probable serine/th         43       508       5.6       746       2       S62365       SNF1-related prote         44       505.5       5.6       472       2       B90100       SNF-related kinase							
35 517.5 5.7 440 2 T14735 probable serine/th 36 515.5 5.7 513 1 S60303 serine/threonine-s 37 514.5 5.7 489 2 T04862 probable serine/th 38 513 5.7 887 2 T20941 hypothetical prote 39 510.5 5.7 421 2 T48202 protein kinase AK2 40 510.5 5.7 421 2 E96522 hypothetical prote 41 509.5 5.6 502 1 A41361 serine/threonine-s 42 508.5 5.6 440 2 T14736 probable serine/th 43 508 5.6 746 2 S62365 SNF1-related prote 44 505.5 5.6 472 2 B90100 SNF-related kinase							
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37 514.5 5.7 489 2 T04862 probable serine/th 38 513 5.7 887 2 T20941 hypothetical prote 39 510.5 5.7 421 2 T48202 protein kinase AK2 40 510.5 5.7 421 2 E96522 hypothetical prote 41 509.5 5.6 502 1 A41361 serine/threonine-s 42 508.5 5.6 440 2 T14736 probable serine/th 43 508 5.6 746 2 S62365 SNF1-related prote 44 505.5 5.6 472 2 B90100 SNF-related kinase							
38       513       5.7       887       2       T20941       hypothetical prote         39       510.5       5.7       421       2       T48202       protein kinase AK2         40       510.5       5.7       421       2       E96522       hypothetical prote         41       509.5       5.6       502       1       A41361       serine/threonine-s         42       508.5       5.6       440       2       T14736       probable serine/th         43       508       5.6       746       2       S62365       SNF1-related prote         44       505.5       5.6       472       2       B90100       SNF-related kinase							
39       510.5       5.7       421       2       T48202       protein kinase AK2         40       510.5       5.7       421       2       E96522       hypothetical prote         41       509.5       5.6       502       1       A41361       serine/threonine-s         42       508.5       5.6       440       2       T14736       probable serine/th         43       508       5.6       746       2       S62365       SNF1-related prote         44       505.5       5.6       472       2       B90100       SNF-related kinase							
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41       509.5       5.6       502       1       A41361       serine/threonine-s         42       508.5       5.6       440       2       T14736       probable serine/th         43       508       5.6       746       2       S62365       SNF1-related prote         44       505.5       5.6       472       2       B90100       SNF-related kinase							
42       508.5       5.6       440       2       T14736       probable serine/th         43       508       5.6       746       2       S62365       SNF1-related prote         44       505.5       5.6       472       2       B90100       SNF-related kinase							
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44 505.5 5.6 472 2 B90100 SNF-related kinase							SNF1-related prote
45 503 5.6 469 2 B84644 probable protein k	4		5.6	472	2	B90100	SNF-related kinase
	4	5 503	5.6	469	2	B84644	probable protein k

RESULT 1

G01025 serine/threonine protein kinase - human C; Species: Homo sapiens (man)

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C;Date: 21-Dec-1996 #sequence revision 06-Jun-1997 #text change 16-Aug-2004
C; Accession: G01025
R; Navarro, E.
submitted to the EMBL Data Library, April 1996
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A; Accession: G01025
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-745 <NAV>
A; Cross-references: UNIPROT:Q15524; UNIPROT:Q96HB3; EMBL:X97630; NID:g1310674
C; Superfamily: protein kinase homology
F;18-271/Domain: protein kinase homology <KIN>
Alignment Scores:
Pred. No.:
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                                      Length:
                                                     745
                       640.00
                                      Matches:
                                                     195
Score:
Percent Similarity:
                       46.21%
                                      Conservative:
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                                                     225
Best Local Similarity:
                       28.43%
                                      Mismatches:
Query Match:
                       7.09%
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                                                     28
DB:
                                      Gaps:
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Qу
                         - 111
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Db
          282 GGCTCCTTCGCCAAGGTGCGCGAGGGGCTGCACGTGCTGACGGGAGAAAAGGTAGCTATC 341
Qу
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           29 GlyAsnPheAlaLysValLysLeuAlaArgHisIleLeuThrGlyLysGluValAlaVal 48
Db
          342 AAGGTCATCGATAAGAAAAGAGCCAAGAAAGACACCTACGTCACCAAAAACCTGCGTCGA 401
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Db
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          402 GAGGGGCAGATCCAGCAGATGATCCGACACCCCAACATCACACAGCTCCTGGACATCTTG 461
Qy
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           67 GluValArqIleMetLysValLeuAsnHisProAsnIleValLysLeuPheGluValIle 86
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           87 \  \, \textbf{GluThrGluLysThrLeuTyrLeuValMetGluTyrAlaSerGlyGlyGluValPheAsp} \  \, 106
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          522 AAGATCTACGAAAAGAAACGGTTGGATGAAGCCGAGGCCCGCAGATACATCCGGCAACTC 581
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Qу	819	GGCGTGAACATGTATGCCATGCTGACGGGGACCCTACCTTTCACTGTGGAGCCTTTCAGC	878	
Db	204	:::    :::::::   :::          ::: ::: GlyValIleLeuTyrThrLeuValSerGlySerLeuProPheAspGlyGlnAsn	221	
Qу	879	CTGAGGGCTCTGTATCAGAAGATGGTGGACAAAGCAATGAATCCCCTGCCGACCCAGCTC	938	
Db	222	LeuLysGluLeuArgGluArgValLeuArgGlyLysTyrArgIleProPheTyrMet	240	
Qу	939	TCCACAGGGGCCGTCAACTTTCTGCGCTCCCTCCTGGAACCAGACCCTGTGAAGAGGCCG	998	
Db	241	SerThrAspCysGluAsnLeuLeuLysLysPheLeuIleLeuAsnProSerLysArgGly	260	
Qу	999	AATATCCAGCAAGCGCTGGCGAATCGCTGGTTGAATGAGAATTACACTGGAAAGGTGCCC :::::    ::: :::     :::	1058	
Db	261	ThrLeuGluGlnIleMetLysAspArgTrpMetAsnValGlyHisGluAsp	277	
Qy .	1059	TGCAATGTCACCTATCCCAACAGGATTTCTTTGGAAGACCTGAGTCCCAGCGTGGTG	1115	
Db	278	AspGluLeuLysProTyrValGluPro	286	
Qу	1116	CTGCACATGACTGAAAAGCTGGGCTATAAGAAC ::: ::	1148	
Db	287	${\tt LeuProAspTyrLysAspProArgArgThrGluLeuMetValSerMetGlyTyrThrArg}$	306	
Qу	1149	AGTGACGTCATCAACACGGTGCTCTCCAACCGCGCCTGCCACATCCTGGCCATCTACTTC ::::::	1208	
Db	307	${\tt GluGluIleGlnAspSerLeuValGlyGlnArgTyrAsnGluValMetAlaThrTyrLeu}$	326	
Qy .		CTGTTGAACAAGAAACTTGAGCGCTATTTGTCAGGGAAATCAGATATCCAAGATAGC		
Db	327	LeuLeuGlyTyrLysSerSerGluLeuGluGlyAspThr	339	
Qу		ATCTGCTACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCACCAAGGAGCCCTAT		
Db	340	IleThrLeuLysProArgPro	346	
Qу	1326	GAGGCCTCCCTGGATACCTGGACGAGGGACTTTGAATTCCATGCTGTGCAG	1376	
Db	347	${\tt SerAlaAspLeuThrAsnSerSerAlaGlnPheProSerHisLysValGlnArgSerVal}$	366	
Qу	1377	GATAAAAAGCCCAAAGAACAAGAAAAAAGAGGTGATTTTCTCCAC	1421	
Db	367	${\tt SerAlaAsnProLysGlnArgArgPheSerAspGlnAlaGlyProAlaIleProThrSer}$	386	
Qу	1422	CGTCCGTTTTCCAAGAAGTTGGACAAGAACCTGCCTTCTCACAAACAGCCATCGCCCTCG :::                 :::	1481	
Db	387	AsnSerTyrSerLysLysThrGlnSerAsnAsnAlaGluAsnLysArgProGlu	404	
Qу	1482	CTGATCACACAGCTCCAGAGTACCAAAGCCCTGCTCAAAGACAGGAAGGCCTCCAAGTCA :::      :::::: :::	1541	
Db	405	GluAspArgGluSerGlyArgLys	412	

Qy 1542	${\tt GGCTTCCCCGACAAAGATTCCTTCGTCTGCCGCAATCTTTTCCGAAAAACCTCTGATTCC}$	1601
Db 412		412
Qy 1602	AATTGTGTGGCTTCTTCCATGGAATTCATCCCTGTCCCACCTCCCAGGACACCAAGG	1661
Db 413	ValProAlaSerProLeuProGly	426
. Qy 1662	ATTGTAAAGAAACTAGAGCCACCAACCAGGGCCGGGAAGTGCCAGCATCCTC:::::::                :::	1715
Db 427	LeuGluArgLysLysThrThrProThrProSerThrAsnSerValLeuSerThr	444
Qy 1716	CCCAAGGAAGAGCCCCTGCTGCTGGATATGGTACGCTCCTTTGAGTCT	1763
Db 445	SerThrAsnArgSerArgAsnSerProLeuLeuGluArgAlaSerLeuGlyGlnAlaSer	464
Qy 1764	GTGGATCGAGAGGACCACATAGAACTGCTGTCCCCTTCTCACCATTATAGGATCCTG ::: ::    ::: :::	1820
Db 465	$Ile {\tt GlnAsnGlyLysAspSerLeuThrMetProGlySerArgAlaSerThrAlaSerAla}$	484
Qy 1821	AGCTCGCCTGTGAGCCTGGCTCGTAGGAATTCTAGTGAGAGGACACTCTCCCAGGGGCTG	1880
Db 485	SerAlaGlyValSerAlaAlaArgProArgGlnHisGlnLysSer	499
Qy 1881	CTGTCCGGAAGTACCTCACCTCTCCAAACTCCACTGCATTCCACGCTGGTCTCTTTTGCC :::	1940
Db 500	MetSerGlySerValHisPro	506
Qy 1941	CACGAAGAAAAGAACAGCCCCCGAAAGAGGGGGGTGTGTTCACCGCCTCCCGTTCCC ::::::	2000
Db 507	AsnLysAlaSerGlyLeuProProThrGluSerAsnCysGluValProArgProSer	525
Qy 2001	AGTAATGGCCTCCTGCAGCCTCTGGGGAGCCCCAACTGTGTGAAGAGCAGGGGA	2054
Db 526	Thr Ala ProGln Arg Val ProVal Ala Ser ProSer Ala His Asn Ile Ser Ser Gly	545
. Qy 2055	CGGTTCCCCATGATGGGCATCGGACAGATGCTGAGGAAGCGGCACCAGAGCCTGCAGCCT	2114
Db 546	-GlyAlaPro-AspArgThrAsnPheProArgGlyValSerSerArgSerThrP	563
Qy 2115	TCCTCAGAGAGGTCCCTGGACGCCAGCATGTCCCCTCTGCAGCCCATA	2162
Db 563	heHisAlaGlyGlnLeuArgGlnValArgAspGlnGlnAsnLeuProTyrGlyValT	582
Qy 2163	GCCCCTCCAGCCT 2176 ::	
Db 582	hrProAlaSerPro 586	

.

#### us-10-032-256a-1.n2p.rup

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame\_plus\_n2p model

April 20, 2005, 10:10:28; Search time 394 Seconds Run on:

(without alignments)

13059.319 Million cell updates/sec

Title: US-10-032-256A-1

Perfect score: 9026

Sequence:

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5 Ygapop 10.0 , Ygapext 0.5 Fgapop 6.0 , Fgapext 7.0 Delop 6.0 , Delext 7.0

1612378 seas, 512079187 residues Searched:

Total number of hits satisfying chosen parameters: 3224756

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+\_n2p.model -DEV=xlh

-Q=/cgn2\_1/USPTO\_spoo1/US10032256/runat\_19042005\_181219\_13547/app\_query.fasta\_1.5191

-DB=UniProt\_03 -QFMT=fastan -SUFFIX=n2p.rup -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR\_SCORE=pct -THR\_MAX=100 -THR\_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000 -USER=US10032256\_@CGN\_1\_1\_477\_@runat\_19042005\_181219\_13547 -NCPU=6 -ICPU=3 -NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

UniProt\_03:\* Database:

> 1: uniprot\_sprot:\* uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3720	41.2	714	1	HUNK_MOUSE	O88866 mus musculu
2	3482	38.6	714	2	Q68UT7	Q68ut7 pan troglod
3	3476	38.5	714	1	HUNK_HUMAN	P57058 homo sapien
4	2222.5	24.6	691	2	Q6VZ18	Q6vz18 xenopus lae
5	2004	22.2	626	2	Q6VZ17	Q6vz17 xenopus lae

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us-10-032-256a-1.n2p.rup
                            279
792
771
                 14.2
7.7
7.2
                                                                           Q68ut6 pan troglod
Q6int7 xenopus lae
Q69zi7 mus musculu
        1284
                                        Q68UT6
         691
                                        06INT7
 8
         648
                                        Q69ZI7
                   7.2
                             795
752
793
752
 9
                                       Q9P0L2
                                                                           Q9p012 homo sapien
       646.5
                                       Q8CIP4
10
         646
                                                                           Q8cip4 mus musculu
11
       644.5
                   7.1
                                       008678
                                                                           008678 rattus norv
12
         640
                   7.1
                                       MRK4_HUMAN
                                                                           Q96134 homo sapien
13
                             745
         638
                   7.1
                                        Q15524
                                                                           Q15524 homo sapien
                   7.0
7.0
7.0
14
                             797
         636
                                        Q8VHF0
                                                                           Q8vhf0 rattus norv
                                        Q9JKE4
                                                                           Q9jke4 mus musculu
Q9jke5 mus musculu
Q8ng37 homo sapien
Q8vhj5 mus musculu
15
                             729
         634
         633
16
                             744
                                       Q9JKE5
17
                   7.0
                             752
         632
                                       Q8NG37
                                   222221
18
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                             795
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                             888
778
19
         631
                   7.0
                                        Q8BR95
                                                                           Q8br95 mus musculu
20
         629
                   7.0
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                                                                           Q96hb3 homo sapien
21
                             755
722
       628.5
                   7.0
                                       Q7KZI7
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                   7.0
7.0
22
23
24
25
26
27
         628
                                       Q6PDR4
                                                                           Q6pdr4 mus musculu
         628
627
                            780
776
                                                                           Q804t1 xenopus lae
                                        Q804T1
                                                                           P27448 homo sapien
                                       MRK3_HUMAN
                   6.9
      625.5
625.5
                   6.9
                             942
                                                                           Q8mvw9 haemonchus
                                       Q8MVW9
                   6.9
                           1066
                                        08MVX0
                                                                           Q8mvx0 haemonchus
                   6.9
                             722
                                        008679
         623
                                                                           008679 rattus norv
                                                                           Q96rg0 homo sapien
Q7zy17 xenopus lae
Q8qgv3 xenopus lae
Q9y2k2 homo sapien
Q68a18 homo sapien
28
                   6.9
                             691
                                   222222222
       621.5
                                        Q96RG0
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29
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                             776
                                        Q7ZYL7
                           785
1371
30
         620
                   6.9
                                        Q8QGV3
31
       619.5
                   6.9
                                        Q9Y2K2
32
       618.5
                   6.9
                             719
                                       Q68A18
33
34
35
36
      618.5
617.5
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                             993
                                        Q7KRK4
                                                                           Q7krk4 drosophila
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                                        Q7KRK7
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       614.5
                   6.8
                             722
                   6.7
6.7
6.7
                                                                           Q8mvx2 haemonchus
Q804t2 xenopus lae
Q8mvx1 haemonchus
         608
                             966
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                             725
37
         607
                                        Q804T2
38
       606.5
                             834
                                        Q8MVX1
                                                                           Q17368 caenorhabdi
                   6.7
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39
         606
                                        Q17368
40
                   6.7
                           1189
                                        06PHV1
                                                                           Q6phv1 brachydanio
         602
41
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                                                                           Q17346 caenorhabdi
       601.5
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42
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                   6.7
                                        Q9TW45
       601.5
                                   1 2
                                       MRK2_MOUSE
075271
43
         600
                   6.6
                             774
                                                                           Q05512 mus musculu
                                                                           075271 homo sapien
       598.5
44
                             462
                   6.6
45
                           1187
                                                                           Q6nsm8 brachydanio
         598
                   6.6
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RESULT 1
HUNK_MOUSE
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                              STANDARD;
                                                      PRT;
                                                                714 AA.
ID
       088866;
AC
       16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
DT
DT
DT
       Hormonally up-regulated neu tumor-associated kinase (EC 2.7.1.37)
DE
        (Serine/threonine-protein kinase MAK-V).
DE
       Name=Hunk; Synonyms=Makv;
Mus musculus (Mouse).
GN
os
       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC.
0C
ox
       NCBI_TaxID=10090;
RN
        [1]
       SEQUENCE FROM N.A.
STRAIN=A/SN; TISSUE=Mammary gland;
RP
RC
       MEDLINE=97396592; PubMed=9273061;
Korobko I.V., Kabishev A.A., Kiselev S.L.;
RX
RA
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```
us-10-032-256a-1.n2p.rup
       "Identification of the new protein kinase specifically transcribed in
RT
       mouse tumors with high metastatic potential.";
RT
      Dokl. Akad. Nauk SSSR 354:554-556(1997).
RL
       [2]
RN
RP
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       STRAIN=FVB; TISSUE=Mammary gland;
RC
      MEDLINE=20130113; PubMed=10662544; DOI=10.1006/geno.1999.6078;
RX
       Gardner H.P., Wertheim G.B.W., Ha S.I., Copeland N.G., Gilbert D.J.,
RA
       Jenkins N.A., Marquis S.T., Chodosh L.A.;
RA
       "Cloning and characterization of Hunk, a novel mammalian SNF1-related
RT
      protein kinase.";
Genomics 63:46-59(2000).
RT
RL
       -!- CATALYTIC ACTIVITY: ATP + a protein = ADP + a phosphoprotein.
CC
       -!- SIMILARITY: Belongs to the Ser/Thr protein kinase family. SNF1
CC
\mathsf{CC}
           subfamily.
CC
       This SWISS-PROT entry is copyright. It is produced through a collaboration
CC
       between the Swiss Institute of Bioinformatics and the EMBL outstation
\mathsf{CC}
      the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
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CC
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       or send an email to license@isb-sib.ch).
CC
CC
      EMBL; AF055919; AAC61489.1; -.
EMBL; AF167987; AAF35282.1; -.
HSSP; Q63450; 1A06.
MGD; MGI:1347352; Hunk.
InterPro; IPR011009; Kinase_like.
InterPro; IPR000719; Prot_kinase.
DR
DR
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DR
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 DR
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ProDom; PD000001; Prot_kinase; 1.
SMART; SM00220; S_TKC; 1.
PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.
PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.
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 DR
 DR
 DR
 DR
       PROSITE; PS00108; PROTEIN_KINASE_ST; 1.
DR
       ATP-binding; Serine/threonine-protein kinase; Transferase.
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                                          ATP (By similarity). ATP (By similarity).
       NP_BIND
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                               76
 FT
                               91
 FT
       BINDING
                       91
                                          Proton acceptor (By similarity). T -> I (in Ref. 2).
                              186
       ACT_SITE
                     186
 FT
       CONFLICT
                     697
                              697
 FT
                    714 AA; 79602 MW; D35A53E7A8D9BD1F CRC64;
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                                                Length:
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 Pred. No.:
                              3720.00
                                                                   713
 Score:
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                              99.86%
                                                Conservative:
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 Percent Similarity:
                              99.86%
                                                                   1
 Best Local Similarity:
                                                Mismatches:
                              41.21%
                                                Indels:
                                                                   0
 Query Match:
                                                                   0
                                                Gaps:
 DB:
 US-10-032-256A-1 (1-5024) x HUNK_MOUSE (1-714)
              Qy
               Db
             132 GGCGCGGAGACACGACCAGGCCGGCGGCGGCGGCGGGGAAGTTTCCTGCCCGCCTGG 191
 Qy
              . Dp
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# us-10-032-256a-1.n2p.rup

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Qy
Db
   252 TACCTCATCGGCAGCAGGAAGCTGGGAGAGGGCTCCTTCGCCAAGGTGCGCGAGGGGCTG 311
Qy
    Db
    312 CACGTGCTGACGGGAGAAAAGGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAA 371
Qy
    Db
   Qy
Db
   Qy
Db
    492 GAGCTGTGTCCTGGTGGCAACCTCATGCACAAGATCTACGAAAAGAAACGGTTGGATGAA 551
Qy
    Db
    Qy
Db
   Qy
Db
    Qy
Db
    732 AGCACACAGTGTGGCAGCCCTGCCTATGCTGCGCCAGAACTGCTTGCCAGGAAGAAATAT 791
Qy
    Db
    792 GGCCCCAAAATTGATGTCTGGTCAATAGGCGTGAACATGTATGCCATGCTGACGGGGACC 851
Qy
    Db
    Qy
Db
    912 GCAATGAATCCCCTGCCGACCCAGGCTCTCCACAGGGGCCGTCAACTTTCTGCGCTCCCTC 971
Qy
    Db
    972 CTGGAACCAGACCCTGTGAAGAGGCCGAATATCCAGCAAGCGCTGGCGAATCGCTGGTTG 1031
Qy
    Db
   Qy
Db
   1092 GAAGACCTGAGTCCCAGCGTGGTGCTGCACATGACTGAAAAGCTGGGCTATAAGAACAGT 1151
Qy
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Db	341	us-10-032-256a-1.n2p.rup GluAspLeuSerProSerValValLeuHisMetThrGluLysLeuGlyTyrLysAsnSer	360
Qy		GACGTCATCAACACGGTGCTCTCCAACCGCGCCTGCCACATCCTGGCCATCTACTTCCTG	
Db	361		380
Qy	1212	TTGAACAAGAAACTTGAGCGCTATTTGTCAGGGAAATCAGATATCCAAGATAGCATCTGC	1271
Db	381	LeuAsnLysLysLeuGluArgTyrLeuSerGlyLysSerAspIleGlnAspSerIleCys	400
Qy	1272	TACAAGACCCAGCTCTACCAGATAGAGAAGTGCAGAGCCCCAAGGAGCCCTATGAGGCC	1331
Db	401	TyrLysThrGlnLeuTyrGlnIleGluLysCysArgAlaThrLysGluProTyrGluAla	420
Qy		TCCCTGGATACCTGGACGAGGGACTTTGAATTCCATGCTGTGCAGGATAAAAAGCCCAAA	1391
Db	421		440
Qy		GAACAAGAAAAAAGAGGTGATTTTCTCCACCGTCCGTTTTCCAAGAAGTTGGACAAGAAC	
Db		GluGlnGluLysArgGlyAspPheLeuHisArgProPheSerLysLysLeuAspLysAsn	
Qy		CTGCCTTCTCACAAACAGCCATCGCCCTCGCTGATCACACAGCTCCAGAGTACCAAAGCC	
Db		LeuProSerHisLysGlnProSerProSerLeuIleThrGlnLeuGlnSerThrLysAla	
Qy		CTGCTCAAAGACAGGAAGGCCTCCAAGTCAGGCTTCCCCGACAAAGATTCCTTCGTCTGC	
Db		LeuLeuLysAspArgLysAlaSerLysSerGlyPheProAspLysAspSerPheValCys CGCAATCTTTTCCGAAAAACCTCTGATTCCAATTGTGTGGCTTCTTCTCCATGGAATTC	
Qy Db			
Qy		ATCCCTGTCCCACCTCCCAGGACACCAAGGATTGTAAAGAAACTAGAGCCACCAACCA	
Db	521		540
Qy	1692	GGGCCGGGAAGTGCCAGCATCCTCCCCAAGGAAGAGCCCCTGCTGCTGGATATGGTACGC	1751
Db	541		560
Qy	1752	TCCTTTGAGTCTGTGGATCGAGAGGACCACATAGAACTGCTGTCCCCTTCTCACCATTAT	1811
Db	561	SerPheGluSerValAspArgGluAspHisIleGluLeuLeuSerProSerHisHisTyr	580
Qy	1812	AGGATCCTGAGCTCGCCTGTGAGCCTCGTAGGAATTCTAGTGAGAGGACACTCTCC	1871
Dβ	581		600
Qy	1872	CAGGGGCTGCTGTCCGGAAGTACCTCACCTCTCCAAACTCCACTGCATTCCACGCTGGTC	1931
Db	601	ĠlnĠlyLeuLeuserĠlyserThrserProLeuĠlnThrProLeuHisserThrLeuVal	620
Qy	1932	TCTTTTGCCCACGAAGAAAAGAACAGCCCCCCGAAAGAGGGGGGTGTGTTCACCGCCT	1991
Dp	621	serPheAlaHisGluGluLysAsnSerProProLysGluGluGlyValCysSerProPro	640
Qy	1992	CCCGTTCCCAGTAATGGCCTCCTGCAGCCTCTGGGGAGCCCCAACTGTGTGAAGAGCAGG	2051
Db			
Qy	2052	${\tt GGACGGTTCCCCATGATGGGCATCGGACAGATGCTGAGGAAGCGGCACCAGAGCCTGCAG}$	2111

		us-10-032-256a-1.n2p.rup	
Db	661	us-10-032-256a-1.n2p.rup	680
Qy	2112	CCTTCCTCAGAGAGGTCCCTGGACGCCAGCATGTCCCCTCTGCAGCCCCATAGCCCCCTCC	2171
Db	681		700
Qy		AGCCTCTCTTTGACATGGCCGACGGTGTCAAGGGCCAGTGT 2213	
Db	701		

#### us-10-032-256a-1.rni

#### GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

April 19, 2005, 23:19:57; Search time 745 Seconds Run on:

(without alignments) 11034.435 Million cell updates/sec

US-10-032-256A-1 Title:

Perfect score: 5024

Sequence: 

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

1202784 seqs, 818138359 residues Searched:

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued\_Patents\_NA:\*

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/cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*
/cgn2\_6/ptodata/1/ina/pcTUS\_COMB.seq:\* 3: 4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		%				
Result	<b>5</b>	Query			TD.	Dan aud und au
No.	Score	Match	Length 			Description
1	157.8	3.1	279	4	US-09-621-976-14904	Sequence 14904, A
2	136.6	2.7	2175	4	US-09-984-890-1	Sequence 1, Appli
3	136.6	2.7	2175	4	US-10-274-194-1	Sequence 1, Appli
4	136.6	2.7	2224	4	US-09-949-016-2384	Sequence 2384, Ap
5	136.6	2.7	2224	4	us-09-949-016-2385	Sequence 2385, Ap
6	136.6	. 2.7	2950	4	us-09-949-016-1546	Sequence 1546, Ap
7	136.6	2.7	2950	4	US-09-949-016-1547	Sequence 1547, Ap
8	122.8	2.4	1647	3	US-09-101-146-44	Sequence 44, Appl
9	121.4	2.4	2499	4	us-09-949-016-5704	Sequence 5704, Ap
10	119.8	2.4	2104	3	US-09-313-930-1	Sequence 1, Appli
11	119.8	2.4	2104	4	US-09-023-655-1191	Sequence 1191, Ap
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   APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
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CURRENT FILING DATE: 2000-07-21
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  APPLICANT: GARDNER, Heather P
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  FILE REFERENCE: 22253-70421
  CURRENT APPLICATION NUMBER: US/10/032,256A CURRENT FILING DATE: 2002-05-21
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# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

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; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1385
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-060-756-1385

Query Match 3.4%; Score 171.2; DB 10; Length 472;
Best Local Similarity 87.0%; Pred. No. 4.3e-21;
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		u5-10-032-230a-1. MpH	
Qy	331	GGTAGCTATCAAGGTCATCGATAAGAAAAGAGCCAAGAAAGA	0
Db	257	GGTGGCCATAAAAGTCATTGATAAGAAGAGAGCCAAAAAGGACACCTATGTCACCAAAA 31	6
Qy	391	CCTGCGTCGAGAGGGGCAGATCCAGCAGATGATCCGACACCCCAACATCACACAGCTCC 45	0
Db	317	CCTGCGGCGAGAGGGTCAGATCCAGCAGATGATCCGCCACCCCAATATCACTCAGCTCC 37	6
Qy	451	GGACATCTTGGAGACAGAGAACAGCTACTACCTGGTCATGGAGCTGTGTCCTGGTGGCA 51	0
Db	377	TGATATTTTAGAAACGGAAAACAGCTACTACCTGGTCATGGAGCTGTGCCCTGGGGGCA 43	6
Qy	511	CCTCATGCACAAGATCTACGAAAAGAAACGGTTGG 546	
Db	437	 CCTGATGCACAAGATCTATGAGAAGAAGCGGCTGG 472	